

April 30, 1965

INVOICE NO. 10

For services rendered on Contract

From:

To:

U. S. Government

Services rendered:

Principal Associate

Task I

Task II

Direct costs:

No direct costs

Invoice Total:

Certified as received and accepted:

Technical Representative of the Contracting Officer

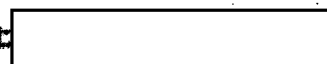
Declass Review by NGA.

April 30, 1965

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Monthly letter progress report - Contract



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LOG OF ACTIVITIES

Tuesday, April 6, 1965 (1/4 day Task I)

Conference with   
at Los Angeles, to review data in preparation for visitation.

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Thursday, April 8, 1965 (1 day Task I)



Visitation:  and  
preparation of reports.

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Friday, April 9, 1965 (1 day Task I)

Preparation of reports of visitations.

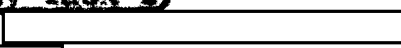

Monday, April 19, 1965 (1 day Task I)

Visitation:   


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Tuesday, April 20, 1965 (1/4 day Task I)

Visitation: Representative of   


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Wednesday, April 21, 1965 (1/4 day Task I)

Review visitations and report data with staff members of  
technical representative of Contracting Officer.

Thursday, April 22, 1965 (1 day Task II)

Compilation of data on materials properties for Item 1.

Friday, April 23, 1965 (1 day Task II)

Further compilation of data on materials properties and  
preparation of report on Item 1.

Monday, April 25, 1965 (1/2 day Task II)

Complete draft of report on Item 1.

Friday, April 30, 1965 (1/2 day Task I)

Visitation:   


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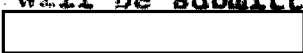
April 30, 1965



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Comments on Status

Task II - Item 1. "Submicron Measurement Error Analysis"

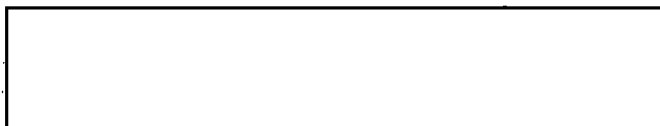
STAT The second preliminary technical report was completed and will be submitted next week. A glassy material made by  has a zero thermal coefficient of expansion. It has promise of eliminating thermal drift and temperature calibration and correction in submicron measuring engines. Cost is fairly high, slightly less than fused quartz, but not prohibitive.

The pure metal, beryllium, is stiffer than steel and as light as magnesium. Many of its properties are ideally suited to measuring engine construction but its cost is extremely high, \$70 to \$100 per pound.

Consideration of material properties must also include the vibration properties and elastic and static deflection properties of structures or the conclusions may be misleading. It is proposed that the study also examine the structural properties.

Task II - Item 2 "Signal Strength of Broadcast Radiation of Closed Circuit TV"

The technical reports previously submitted indicated that no data is available on broadcast radiation levels of closed circuit TV per Fed Std 222. An exploratory test program was outlined for determining the extent of the problem. Work has stopped on this item pending implementation of the exploratory test program.



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